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(54) **MODULATION OF SIGNALS FOR
TRANSMISSION IN PACKETS VIA AN AIR
INTERFACE**

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(75) Inventors: **Arto Palin**, Lempäälä (FI); **Jukka
Reunamaki**, Tampere (FI)

(73) Assignee: **Spyder Navigations, L.L.C.**,
Wilmington, DE (US)

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370/213; 370/349

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370/205, 206, 213
See application file for complete search history.

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Primary Examiner—Hassan Kizou
Assistant Examiner—Wutchung Chu

(57) **ABSTRACT**

The invention relates to a method and to a modulator for modulating signals. The signals are to be transmitted by a device in packets via an air interface. Each packet is supposed to comprise at least one entity of at least two different entities, which different entities are employed for transmitting signals representing different kinds of information. In order to enable a higher data rate, signals that are to be transmitted in at least one of said different entities are modulated with a first set of values of at least one modulation parameter of a selected modulation scheme. Further, signals that are to be transmitted in at least one other of said different entities are modulated with a second set of values of said at least one modulation parameter, said second set of values comprising less values than said first set of values.

25 Claims, 4 Drawing Sheets

